Group Art Unit: Unassigned

Examiner: Unassigned



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kutsovsky

Application No. 10/720,582

Filed: November 24, 2003

For: FUMED METAL OXIDE PARTICLES

AND PROCESS FOR PRODUCING

SAME

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Pursuant to 37 CFR 1.97 and 1.98, the references listed on the enclosed Form PTO-1449 and/or Substitute Form PTO-1449 ("Form 1449") are submitted for consideration by the Examiner in the examination of the above-identified patent application.

The full consideration of the references in their entirety by the Examiner is respectfully requested and encouraged. Also, it is respectfully requested that the references be entered into the record of the present application and that the Examiner place his or her initials in the appropriate area on the enclosed Form 1449, thereby indicating the Examiner's consideration of each of the references.

The submission of the references listed on the Form 1449 is for the purpose of providing a complete record and is not a concession that the references listed thereon are prior art to the invention claimed in the patent application. The right is expressly reserved to establish an invention date earlier than the above-identified filing date in order to remove any reference submitted herewith as prior art should it be deemed appropriate to do so.

Further, the submission of the references is not to be taken as a concession that any reference represents art that is relevant or analogous to the claimed invention. Accordingly, the right to argue that any reference is not properly within the scope of prior art relevant to an examination of the claims in the above-identified application is also expressly reserved.

The Information Disclosure Statement is being filed:

within any one of the following time periods: (a) within three months of the filing date of a national application other than a continued prosecution application under 37 CFR 1.53(d); (b) within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 of an international application; (c) before the mailing date

In re Appln. of Kutsovsky Application No. 10/720,582

		est Office Action on the merits; or (d) before the mailing of a first Office Action ne filing of a request for continued examination under 37 CFR 1.114.
	37 CFI	(a), (b), (c) or (d) above, but before the mailing date of a final action under R 1.113, a Notice of Allowance under 37 CFR 1.311, or an action that rise closes prosecution in the application, and includes <i>one</i> of:
`		the Statement under 37 CFR 1.97(e) (see "Statement under 37 CFR 1.97(e)" below).
	\Box	the fee of \$180 set forth in 37 CFR 1.17(p) (see "Fees" below).
	under and or 37 CFI	he mailing date of a final action under 37 CFR 1.113 or a Notice of Allowance 37 CFR 1.311, or an action that otherwise closes prosecution in the application, or before payment of the issue fee, and includes the Statement under R 1.97(e) (see "Statement under 37 CFR 1.97(e)" below), and the fee of \$180 as the in 37 CFR 1.17(p) (see "Fees" below).
	payme contair 37 CFI \$180 a NOTE: May 29,	he mailing date of a Notice of Allowance under 37 CFR 1.311, and on or before nt of the issue fee, and within thirty days of receiving each item of information ned in the Information Disclosure Statement, and includes the Statement under R 1.704(d) (see "Statement under 37 CFR 1.704(d)" below), and the fee of s set forth in 37 CFR 1.17(p) (see "Fees" below). This is for original applications except applications for a design patent, filed on or after 2000, wherein a paper containing only an Information Disclosure Statement in compliance CFR 1.97 and 1.98 is being filed.
Copie	s of the	References
	Attach relevar an Eng action degree	of the references listed on the enclosed Form 1449 are enclosed herewith. ed to each reference not in the English language is a concise explanation of the nce pursuant to 37 CFR 1.98(a)(3). An English-language equivalent/patent, or glish-language abstract, or an English-language version of the search report or by a foreign patent office in a counterpart foreign application indicating the of relevance found by the foreign office is being submitted in lieu of a concise ation of the relevance pursuant to 37 CFR 1.98(a)(3).
	A copy	of the foreign search report is enclosed herewith.
	parent furnish submit The E accord Proced relied	ferences listed on the enclosed Form 1449 were previously identified in the application(s) of the present application, and copies of the references were sed at that time. Accordingly, additional copies of the references are not ted herewith, so as not to burden the file with duplicate copies of references. Examiner is respectfully requested to carefully review the references in ance with the requirements set out in the Manual of Patent Examining ture. In accordance with 37 CFR 1.98(d), the details of the parent application(s) upon for an earlier filing date under 35 USC 120 in which copies of the aces were previously furnished are set out below:

	U.S. APPLIC	CATIONS	Status (check one)							
	.S. Applications	U.S. FILING DATE	PATENTED	PENDING	ABANDONED					
1.										
2.				<u> </u>	-					
<u>J.</u>			<u></u>							
State	Statement under 37 CFR 1.97(e)									
	The undersigned hereby states that each item of information contained in the Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of the Information Disclosure Statement.									
	The undersigned hereby states that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing of the Information Disclosure Statement.									
State	ment under 37 CFR	1.704(d)								
	Information Disclost office in a counterpany individual desi	hereby states that each sure Statement was cited part application and that gnated in 37 CFR 1.56(Disclosure Statement.	l in a communi t this commun	cation from ication was	a foreign patent not received by					
Fees										
	No fee is owed by the IDS Fee of \$18	he applicant(s). 30 under 37 CFR 1.17(p)	is enclosed he	erewith.						
Meth	od of Payment of Fe	es								
	Attached is a check in the amount of \$. Charge Deposit Account No. 12-1216 in the amount of \$. (A duplicate copy of this communication is enclosed for that purpose.)									
Autho	orization to Charge	Additional Fees								
	If any additional fees are owed in connection with this communication, please charge Deposit Account No. 12-1216. (A duplicate copy of this communication is enclosed for that purpose.)									

In re Appln. of Kutsovsky Application No. 10/720,582

Instructions as to Overpayment

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John Kilyk, Jr., Reg. No. 39,763 LEYDIG, VOIT & MAYER, LTD. Two Prudential Plaza, Suite 4900

180 North Stetson

Chicago, Illinois 60601-6780 (312) 616-5600 (telephone) (312) 616-5700 (facsimile)

Date: December 17, 2003

CERTIFICATE OF MAILING

I hereby certify that this INFORMATION DISCLOSURE STATEMENT (along with any documents referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: December 17, 2003

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TRADEMARK SE **INFORMATION DISCLOSURE**

Substitute for form 1449A/B/PTO

STATEMENT BY APPLICANT

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Complete if Known						
Application Number	10/720,582					
Filing Date	November 24, 2003					
First Named Inventor	Kutsovsky	·				
Group Art Unit	Unassigned					
Examiner Name	Unassigned					
Attorney Docket Number	02019					
LVM Docket Number	225308					

				U.S. PATENT DOCUMENTS			
Examiner	Doc.	U.S. Patent Document Application or Kind Code			Date of Filing Date		
Initials	No.	Patent Number	Kind Code	Name of Patentee or Applicant	Publication	Appropriate	
	AA	Re. 28,974		Morgan et al.	Sep. 21, 1976		
	ΑB	2,631,083		Engelson et al.	Mar. 10, 1953		
	AC	2,693,406		Wendell, Jr. et al.	Nov. 2, 1954		
	AD	2,771,344		Michel et al.	Nov. 20, 1956		
	ΑE	2,773,741		Antonsen	Dec. 11, 1956		
	AF	2,780,525		Wendell, Jr. et al.	Feb. 5, 1957	· · · · · · · · · · · · · · · · · · ·	
	AG	2,801,901		Dingman et al.	Aug. 6, 1957	-	
_	AH	2,803,038		Holland et al.	Aug. 20, 1957		
	ΑI	2,828,186		Dingman et al.	Mar. 25, 1958		
	AJ	2,829,949		Wendell, Jr. et al.	Apr. 8, 1958		
	AK	2,847,316		Michel et al.	Aug. 12, 1958		
	AL	3,006,738		Wagner	Oct. 31, 1961		
	AM	3,007,774		Stokes et al.	Nov. 7, 1961		
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	AO	3,065,093	\vee	Berstein et al.	Nov. 20, 1962		
	AP	3,112,210		Carpenter et al.	Nov. 26, 1963		
	AQ	3,130,008		Stokes et al.	Apr. 21, 1964		
	AR	3,166,542		Orzechowski et al.	Jan. 19, 1965		
	AS	3,203,762		Carpenter	Aug. 31, 1965		
	ΑТ	3,205,177		Orzechowski et al.	Sep. 7, 1965		
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	AV	3,212,911		Berstein et al.	Oct. 19, 1965		

				FOREIGN	N PATENT DOCUMENTS			
	•	Fo	reign Patent Documer	nt			Translation	
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No**
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		OTHER - NON PATENT LITERATURE DOCUMENTS		
Examiner Doc. No.	Doc.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item		
		(book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
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Examiner Signature Date Considered

^{*} A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

⁺ An English-language equivalent/patent, or an English-language abstract, or an English-language version of the search report or action by a foreign patent office in a counterpart foreign application indicating the degree of relevance found by the foreign office is being submitted in lieu of a concise explanation of relevance under 37 CFR 1.98(a)(3).

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	Substitute for form 1449A/B/PTO	TA TRADEMARY OF	Application Number	10/720,582
	INFORMATION DIS	CLOSURE	Filing Date	November 24, 2003
		First Named Inventor	Yakov E. KUTSOVSKY	
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		·	U.	S. PATENT DOCUMENTS		
		U.S. Patent Do	cument			
Examiner Initials	Doc. No.	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Filing Date I Appropriate
	AW	3,322,499		Carpenter et al.	May 30, 1967	
	AX	3,363,980		Krinov	Jan. 16, 1968	
_	AY	3,365,274		Carpenter et al.	Jan. 23, 1968	
	ΑZ	3,372,001		Wendell	Mar. 5, 1968	
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	BB	3,455,653		Aftandilian	Jul. 15, 1969	
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	BG	3,607,049		Weaver, Jr. et al.	Sep. 21, 1971	
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	ВІ	3,663,283		Herbert et al.	May 16, 1972	
	BJ	3,922,335		Jordan et al.	Nov. 25, 1975	
	BK	4,023,961		Douglas et al.	May 17, 1977	
	BL	4,879,104		List et al.	Nov. 7, 1989	
	ВМ	4,937,062		Jordan et al.	Jun. 26, 1990	
	BN	6,086,841		Lee	Jul. 11, 2000	
	ВО	6,364,944		Mahmud et al.	Apr. 2, 2002	
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Group Art Unit

Examiner Name

Attorney Docket Number

LVM Docket Number

Unassigned Unassigned

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				FORE	IGN PATENT DOCUMENTS			
		Foreign Patent Document				Translation		
Examiner Initials	Doc. No.	Office	Application or Patent Number	Kind Code	Name of Patentee or Applicant	Date of Publication	Yes	No*+
	ВР	JP	59-223217	A	Tokuyama Soda KK	Dec. 15, 1984	Х	
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		OTHER - NON PATENT LITERATURE DOCUMENTS		
Examiner	Doc.	Trans	lation	
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Examiner Signature Date Considered

A concise statement of relevance is being submitted in lieu of a translation. 37 CFR 1.98(a)(3).

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INF	ORMATION	DISCI	OSLIRE	Filing Date	November 24, 2003	
				First Named Inventor	Yakov E. KUTSOVSKY	
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	(Use as many sh	eets as neces	sary)	Examiner Name	Unassigned	
Sheet	4	of	4	Attorney Docket Number	02019	
			_	LVM Docket Number	225308	

		OTHER - NON PATENT LITERATURE DOCUMENTS	г	1 4:
Examiner Initials	Doc. No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	slation No*+
	СІ	SANO et al., "Analysis of production process of oxidized metallic powder (preparation of cerium dioxide particles by spray pyrolysis method)," <i>Proceedings of ICLASS-'97, vol. 2,</i> 1045-1052 (August 18-22, 1997)		
<	CJ	SANOGO et al., "Kinetic studies of the reaction of tetraethoxysilane with oxygen atoms," J. Electrochem. Soc., 144(8), 2919-2923 (August 1997)		
✓	CK	SUZUKI et al., "Synthesis of ultrafine single-component oxide particles by the spray-ICP technique," J. Mat. Sci., 27(3), 679-684 (1992)		
	CL	VALLET-REGI et al., "Synthesis and characterization of CeO ₂ obtained by spray pyrolysis method," <i>Materials Science Forum Vols. 235-238</i> , 291-296 (1997)		-
1	СМ	WEISS et al., "Atomization in high velocity airstreams," ARS J., 29(4), 252-259 (1959)		
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Examiner Signature	Date Considered		
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INFO	RMATION			Application Number 10/720,582 Filing Date November 24, 2003 First Named Inventor Yakov E. KUTSOVSKY Group Art Unit Unassigned Examiner Name Unassigned Attorney Docket Number 02019		
				First Named Inventor	Yakov E. KUTSOVSKY	
SIA	TEMENT	ST APPL	ICAN I	Group Art Unit	Unassigned	
	(Use as many sh	eets as necess	ary)	Examiner Name	Unassigned	
Sheet	3	of	4	Attorney Docket Number	02019	
				LVM Docket Number	225308	
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F	0	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book,	Tran	slation
Examiner Initials	Doc. No.	magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number (s), publisher, city and/or country where published.	Yes	No*+
1	BQ	BRIESEN et al., "The effect of precursor in flame synthesis of SiO ₂ ," <i>Chem. Eng. Sci.</i> , 53(24), 4105-4112 (1998)		
/	BR	BRIESEN et al., "Synthesis of SiO ₂ particles from organometallic precursors," World Congress on Particle Technology, 3, 1-6 (1998)		
/	BS	BRUNAUER et al., "Adsorption of gases in multimolecular layers," <i>J. Am. Chemical Society, 60</i> , 309-319 (1938)		
✓	ВТ	DAVIDSON et al., "Kinetics of the thermolysis of octamethylcyclotetrasiloxane in the gas phase," J.C.S. Faraday Transactions I, 71, 2260-2265 (1975)		
1	BU	DAVIDSON et al., "Kinetics of the oxidation of octamethylcyclotetrasiloxane in the gas phase," J.C.S. Faraday Transactions I, 72, 1088-1095 (1976)		
./	BV	GLASSMAN, Combustion, Academic Press, Orlando (1987), pp. 15-27.		
/	BW	GLUMAC, "Formation and consumption of SiO in powder synthesis flames," Combustion and Flame, 125, 702-711 (2001)		
1	ВХ	HASEGAWA et al., "Effect of additive oxides on ultrafine CeO ₂ particles synthesized by the spray-ICP technique," <i>J. Mat. Sci. Letters</i> , <i>15(18)</i> , 1608-1611 (1996)		
/	ВҮ	HSHIEH, "Predicting heats of combustion and lower flammability limits of organosilicon compounds," Fire Mater., 23, 79-89 (1999)		
/	ΒZ	HUNG et al., "Formation of mixed oxide powders in flames: Part I. TiO ₂ -SiO ₂ ," <i>J. Mater.</i> Res., 7(7), 1861-1869 (July 1992)		
/	CA	INGEBO et al., "Drop-size distribution for crosscurrent breakup of liquid jets in airstreams," National Advisory Committee for Aeronautics Technical Note 4087 (1957)		
ď,	СВ	KAMMLER et al., "Flame synthesis of nanoparticles," Chem. Eng. Technol., 24(6), 583-596 (2001)		
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	CD	KAMMLER et al., "Scaling-up the production of nanosized SiO₂-particles in a double diffusion flame aerosol reactor," <i>J. Nanoparticle Res., 1</i> , 467-477 (1999)		
	CE	KAMMLER et al., "Synthesis of silica-carbon particles in a turbulent H ₂ -air flame aerosol reactor," AIChE J., 47(7), 1533-1543 (July 2001)		
7	CF	KODAS et al., Aerosol Processing of Materials, 28-31, Wiley VHC, New York (1999)		F
/	CG	KROSCHWITZ, exec. ed., <i>Kirk-Othmer Encyclopedia of Chemical Technology</i> , 4 th ed., John Wiley & Sons, New York (1997), pp. 1026-1027		
ام.	СН	MÄDLER et al., "Controlled synthesis of nanostructured particles by flame spray pyrolysis," <i>J. Aerosol Sci., 33</i> , 369-389 (2002)		

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